# pecifications

### io section

ency range
FM: 875 – 108 MHz
AM: 530 – 1,710 kHz (10 kHz step)
531 – 1,602 kHz (9 kHz step)

nas
FM: Headphone cord antenna
AM: Built-in ferrite bar antenna

### e player section

uency response (Dolby NR off)
30 – 15,000 Hz

r output
10mW+ 10mW 16 ohms at DC operation
Headphones (stereo minijack): load impedance 8 – 300 ohms

r requirements
3 V DC
Two size AA (R6) batteries
DC IN 3 V jack accepts
Optional Sony EBP-500B battery case for use with size D (R20) batteries
Optional Sony AC-D2M AC power adaptor for use on 120 V AC, 60 Hz
Optional Sony DCC-70 car battery cord for use with 12 V car battery

ery life
Approx. 6 hours of tape playback and approx. 16 hours of FM reception, using Sony alkaline batteries AM3 (N)

ensions
Approx. 97 × 119 × 43 mm (w/h/d)
(3⅞ × 4¾ × 1⅞ inches)
not incl. projecting parts and controls

ght
Approx. 330 g (11.8 oz)
incl. batteries

sories supplied
Stereo headphones (1)
Belt clip (1)

gn and specifications subject to change without notice.

### tional accessories

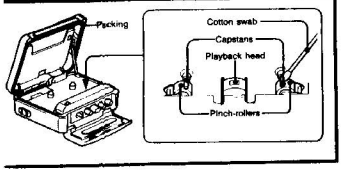
power adaptor AC-D2M
ery case EBP-500B
battery cord DCC-70

dealer may not handle some of the above listed optional accessories. Please the dealer for detailed information.

e: Use only the recommended AC power adaptor or car battery cord nufactured by Sony. Polarity of the plugs of other manufacturers may be different.

Polarity of the WM-F2078 plug

# On Maintenance




**ean the tape head after every 10 hours of use** to enjoy optimum reo sound. Moisten a cotton swab or a soft cloth with alcohol and wipe head, pinch-rollers and capstans.

### eaning the unit's exterior

ean your unit's exterior with a water moistened soft cloth. Do not use ohol, benzine or thinner.

### emove any dust or sand from the packing

y sand or dust on the rubber packing will prevent the cassette mpartment lid from shutting tightly, and water may leak in. Brush off the st once in a while.

### eful life of the rubber packing

Though it depends on the maintenance and the length of use, we ommend changing the packing every year. Replacement packing is ailable at an authorized Sony Service Facility.

### eaning the headphone plug

SONY.

AUDIO TAPE RECORDER
COMPACT DISC COMPACT PLAYER

## LIMITED WARRANTY

SONY CORPORATION OF AMERICA ("SONY") warrants this product against defects in material or workmanship, as follows:

1. For a period of 90 days from the date of purchase, SONY will pay the labor charges of your SONY authorized service facility to repair the defective product. After the 90-day period, you must pay for all labor charges.
2. In addition, SONY will supply, at no charge, new or rebuilt replacements for defective parts for a period of 1 year from the original date of purchase.

**Labor and Parts**

To obtain warranty service during the initial 90 day period, you must take the product, or deliver the product prepaid, to a SONY authorized service facility.

**Parts Only**

During the remainder of the warranty period, any defective part will be replaced if it is taken, or delivered prepaid, to a SONY service center. Labor for removal and installation is available from your SONY authorized service facility or SONY service center, at your expense.

This warranty does not cover cosmetic damage, and damage due to acts of God, accident, misuse, abuse or negligence to the product, including the antenna. This warranty is valid only in the United States of America.

Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the unit is within the warranty period must be presented to obtain warranty service.

This warranty is valid only if the serial number appears on the product.

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. SONY SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. In addition, if you enter into a service contract with the Sony Partnership within 90 days of the date of sale, the limitation on how long an implied warranty lasts does not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

For your convenience, Sony Corporation of America has established the Customer Information Center to supply you with product or service information.

**SONY CUSTOMER INFORMATION CENTER**
**1-800-930-SONY (7669)**

or write to:

Sony Customer Information Center
Sony Drive, Mail Drop: # M-1
Park Ridge, NJ 07656

**SONY CORPORATION OF AMERICA**
Sony Drive, Park Ridge, New Jersey, 07656

### Sony Service Centers

**Arizona**
Phoenix
2240 North Scottsdale Road
Tempe, AZ 85281
(602) 949-7888

**California**
Burbank (Los Angeles area)
4100 Riverside Drive, Suite A
Burbank, CA 91505
(818) 842-7669

Costa Mesa (Orange County area)
2129 Wilson Street South
Costa Mesa, CA 92626
(714) 549-4823

San Bruno (San Francisco area)
751 Camino Plaza
San Bruno, CA 94066
(415) 871-2910

San Diego
8975 Complex Drive
San Diego, CA 92123
(619) 279-2724

San Jose
1288 Old Oakland Road
San Jose, CA 95112
(408) 280-7669

**Colorado**
Denver
Inverness Place Center
16740 East 6th Avenue
Aurora, CO 80014
(303) 755-7669

**Florida**
Fort Lauderdale
2850 North 28th Terrace
Hollywood, FL 33020
(305) 920-5900

**Georgia**
Atlanta
120 Interstate North Parkway East
Suite 410
Atlanta, GA 30339
(404) 953-5871

**Hawaii**
Honolulu
950 Maunakaina Street
Honolulu, HI 96819
(808) 834-5622

**Illinois**
Niles (Chicago NW)
7840 North Caldwell Avenue
Niles, IL 60648
(312) 647-2400

Westmont (Chicago SW)
6036-38 South Cass Avenue
Westmont, IL 60559
(312) 968-0049

**Kansas**
Kansas City
11112 West 95th Street
Overland Park
KS 66214
(913) 888-2622

**Maryland (Washington DC)**
Washington DC
1358 Horton Lane
Langley Park, MD 20783
(301) 439-3500(D)

**Massachusetts**
Boston
380 University Avenue
128 Westwood Industrial Center
Westwood, MA 02090
(617) 329-5150

**Michigan**
Detroit
42304 Seven Mile Road
Novi, MI 48050
(313) 344-4744

**Minnesota**
Minneapolis
4300 W 36 th Street
St. Louis Park, MN 55416
(612) 920-8000

**Missouri**
St. Louis
12482 D Navaid Bridge Road
Bridgeton, MO 63044
(314) 291-2201

**New Jersey**
Mahwah (NY Metropolitan Area)
388 Route 17 South
Mahwah, NJ 07430
(201) 529-1855

**Ohio**
Cleveland
8370 York Road
Parma Heights, OH 44130
(216) 845-1855

**Pennsylvania**
Philadelphia
651 Park Avenue
King of Prussia, PA 19406
(215) 768-8850

Pittsburgh
Warland Plaza
1080 Penn Highway (Rt. 1986)
Warland, PA 15090
(412) 835-8486

**Texas**
Dallas
401 Preston Valley Shopping Center
Dallas, TX 75230
(214) 661-3537

Houston
6747 Richmond Avenue
Houston, TX 77057
(713) 783-8781

**Washington**
Seattle
835 Fidalgo
Seattle, WA 98108
(206) 762-8500

### Sony District Service Offices

**Western Zone**

Western District
Sony Service Company
2129 Wilson Street South
Costa Mesa, CA 92626
(714) 549-4836

Northwestern District
Sony Service Company
1288 Old Oakland Road
San Jose, CA 95112
(408) 280-7675

Southwestern District
Sony Service Company
5201 Ruffin Rd., Suite 100

**Central Zone**

Mid-West District
Sony Service Company
7840 North Caldwell Avenue
Niles, IL 60648
(312) 647-2424

Sun Capital District
Sony Service Company
24300 Town Center Drive
Suite 200 Novi, MI 48050
(313) 347-2251

**Eastern Zone**

Eastern District
Sony Service Company
388 Route 17 South
Mahwah, NJ 07430
(201) 529-1616

Mid-Atlantic District
Sony Service Company
651 Park Avenue
King of Prussia, PA 19406
(215) 768-8845

Southeastern District
Sony Service Company
1500 Interstate North Parkway East

SONY

3-751-662-21 (1)

Radio Cassette Player

# WM-F2078

## Operating Instructions

Before operating the unit, please read this manual thoroughly and retain it for future reference.

## Owner's Record

The model number is located at the rear and the serial number is located on the back of the cassette compartment lid. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. WM-F2078 Serial No. _____

# Features

- The synthesized tuner can:
  — receive a station automatically
  — memorize 7 stations for each FM and AM.
- Auto-reverse function changes the tape playback direction without turning the cassette over.
- Water-resistant design.
- Dolby NR* system reduces tape hiss noise during playback.
- TAPE selector for optimum playback with standard tapes as well as high-performance metal tapes.

*Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol ◻◻ are trademarks of Dolby Laboratories Licensing Corporation.

### INFORMATION

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient the receiving antenna.
Relocate the equipment with respect to the receiver.
Move the equipment away from the receiver.
Plug the equipment into a different outlet so that equipment and receiver are on different branch circuits.

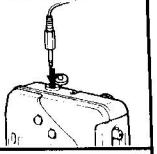
If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful.

"How to Identify and Resolve Radio-TV Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No. 004-000-00345-4.

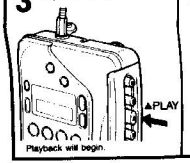
# Tape Playback

**1** Insert a cassette.

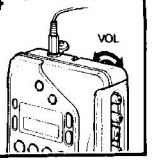
**2** Connect the headphones to the PHONES jack.



**3** Depress ▲ PLAY.




**4** Adjust the volume.




### On tape operation

| | |
|---|---|
| To listen to the other side of the cassette | |
| To stop the tape | |
| To wind the tape rapidly | |

### Notes on playback

- Do not open the cassette compartment lid while the tape is running.
- Be sure to press ■ STOP after winding the tape.

### On playback mode

| | |
|---|---|
| To play back both sides of the cassette once | |
| To play back both sides of the cassette repeatedly | |

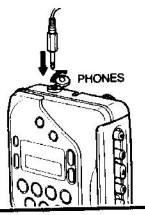
*If you begin playback on the reverse side, the unit will shut off at the end of the tape.

### To get the best performance from your tape

| | |
|---|---|
| For DOLBY NR-processed tapes: | |
| For normal (TYPE I) tapes: | |
| For CrO2 (TYPE II) or metal (TYPE IV) tapes: | |

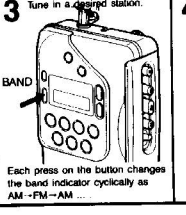
# Radio Reception

**1**



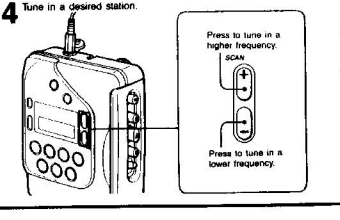

**2** Turn on the radio.

**3** Tune in a desired station.

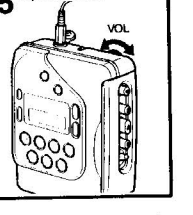



Each press on the button changes the band indicator cyclically as AM→FM→AM ...

**4** Tune in a desired station.

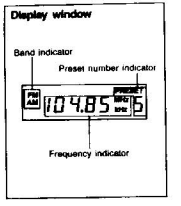



**5** Adjust the volume.




### To stop the radio

### Display window




### Reception Conditions

**FM**

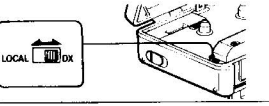
Since the headphone cord serves as an FM antenna, extend it for better reception.

**AM**

Since the reception is affected by the direction of the unit, rotate the unit horizontally for optimum reception.

### Reducing Noise

Normally set the selector to DX. If a very strong station signal causes noise, set the selector to LOCAL. The noise will be reduced.




### To scan the stations

There are three ways to scan the stations.

**— One step scan**

Press a SCAN button repeatedly. You can scan a desired station manually. A beep sound follows each press and the frequency changes in the steps shown below.

AM: 10 kHz
FM: 0.1 MHz

**— Seeking scan**

When you press the SCAN + or − button for more than half a second, the automatic tuning begins, and then stops automatically when a station is received.
To stop automatic tuning, press the SCAN + or − button again.

**— Fast scan**

Use this function to rapidly scan a station.
Keep a SCAN button pressed. Fast scanning starts. Release the button when the scanning comes near a desired frequency. The scanning continues in the seeking scan mode.

**Notes on radio reception**

- When you press the tape operation buttons ( ▲ PLAY, ▲ or ▼ ) during radio reception, the indications on the display window will change to the current time display, the radio will be turned off and the unit will go in the tape operation mode. To restore radio reception, press the RADIO ON button again.
- The automatic tuning function may occasionally miss the best setting for a radio station. If this happens, press the SCAN + or − button to adjust the tuning.
- You should remove the cassette tape if it has a metallic cassette shell or labels. Such cassettes may cause interference or difficulty in tuning.

**When the battery becomes weak while listening to the radio**

The radio will be turned off. In this case, try playing back a tape. If the "E" indicator appears on the display, replace the batteries with new ones.

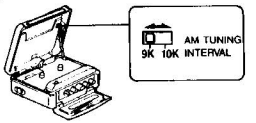
**When you press the RADIO ON button while listening to the radio,** the current time will appear for about two seconds.

### Selecting the AM Tuning Interval

The AM tuning interval is factory preset to 9 kHz or 10 kHz in order to match the local frequency allocation system. If you use the receiver in an area where the frequency allocation system is based on another interval, change the position of the switch with a thin instrument.

**Notes**

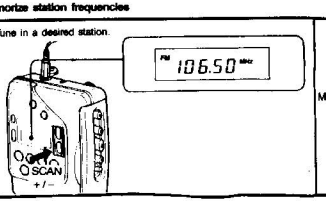
- If you change the interval, all preset stations, current time, and alarm time are canceled.
- When you change the AM tuning interval from 9 kHz to 10 kHz, the FM tuning interval changes from 0.05 MHz to 0.1 MHz, and vice versa. But this is not a problem.



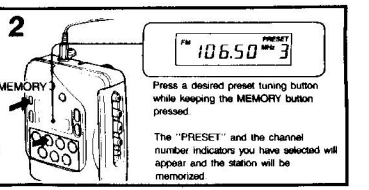

### Presetting Stations

**To memorize station frequencies**

**1** Tune in a desired station.




**2**




Press a desired preset tuning button while keeping the MEMORY button pressed.

The "PRESET" and the channel number indicators you have selected will appear and the station will be memorized.

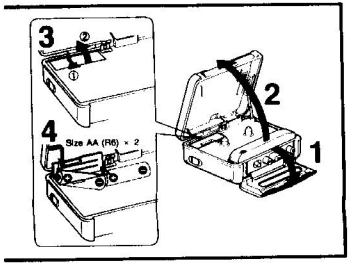
Repeat steps 1 to 2 for both AM and FM. Up to 7 stations each can be memorized for each band.

**To turn off the radio,** press the (radio) OFF button.

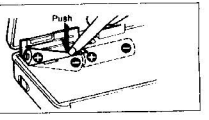
**To tune in a preset station**

1 Press the RADIO ON button to turn on the radio.
2 Select a desired band by pressing the BAND button.
3 Press a desired preset tuning button.
4 Adjust the volume.

## Using with Batteries




**To remove the batteries**




**Notes**

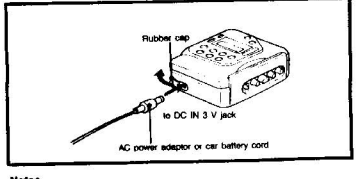
- When the OPR/BATT (operation/battery) indicator glows faintly and the playback sound becomes distorted or unstable, replace the batteries with new ones.
- When the "E" indicator appears on the display, replace the batteries with new ones.
- Insert the batteries with correct polarity.
- When the unit is not to be used for a long period of time, remove the batteries to avoid damage caused by battery leakage and corrosion.
- Concerning the battery life, see "Specifications".

**To keep the preset memories**

**Replace the batteries within about 10 minutes.** The memories of the current time and the preset stations will be erased about 10 minutes after the batteries are removed.

## Using with External Power Sources

Connect the optional AC-D2M AC power adaptor, DCC-70 car battery cord, or EBP-500B battery case.



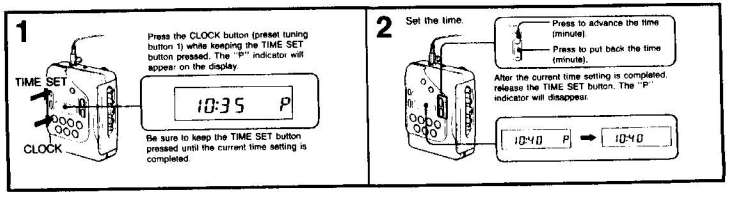

**Notes**

- Remove the batteries before using the unit on an external power source. Otherwise, the batteries will be damaged.
- When you do not use the DC IN 3 V jack, be sure to close the rubber cap. Otherwise, the unit is not water-resistant.

## Clock Operation

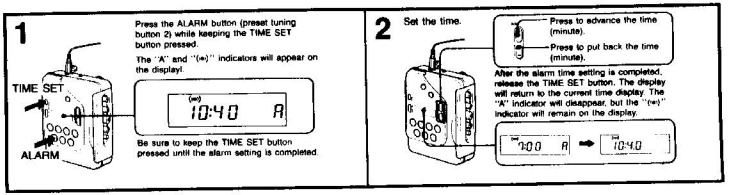
Be sure to turn off the radio.
You cannot set the clock and the alarm during radio reception.

### To Set the Current Time


1
Press the CLOCK button (preset tuning button 1) while keeping the TIME SET button pressed. The "P" indicator will appear on the display.
TIME SET
CLOCK
10:35 P
Be sure to keep the TIME SET button pressed until the current time setting is completed.
2
Set the time.
Press to advance the time (minute).
Press to put back the time (minute).
After the current time setting is completed, release the TIME SET button. The "P" indicator will disappear.
10:40 P
10:40

- When the SCAN + or − button is kept pressed, the digits advance rapidly.
- The hour display is on a 12-hour cycle.
- Replace the batteries within about one hour, or the time you set will be canceled.
- The hour display advances by one when the minute display returns to "00" after "59".

### To Set the Alarm

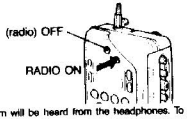

1
Press the ALARM button (preset tuning button 2) while keeping the TIME SET button pressed.
The "A" and "(∞)" indicators will appear on the display.
TIME SET
ALARM
(∞) 10:40 A
Be sure to keep the TIME SET button pressed until the alarm setting is completed.
2
Set the time.
Press to advance the time (minute).
Press to put back the time (minute).
After the alarm time setting is completed, release the TIME SET button. The display will return to the current time display. The "A" indicator will disappear, but the "(∞)" indicator will remain on the display.
(∞) 10:00 A
10:40

### To Cancel the Alarm Setting

If you want to cancel the alarm, press the ALARM button (preset tuning button 2) twice while keeping the TIME SET button pressed. At the first pressing, the "A", "(∞)" and alarm time indicators appear on the display and at the second pressing, the "(∞)" indicator goes off and the alarm setting is canceled. Release the TIME SET button to return to the current time display.

### To Stop the Alarm

**While listening to the radio**




The alarm will be heard from the headphones. To stop the alarm, press the RADIO ON button. You can continuously listen to the radio. If you press the (radio) OFF button, the alarm and the radio are both stopped.

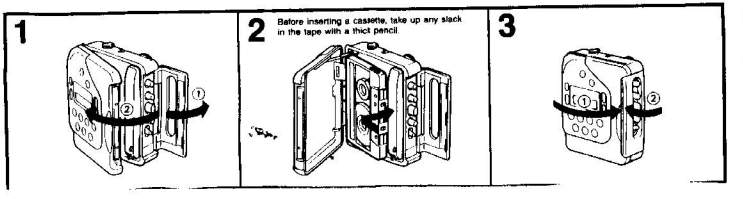
**While listening to the tape**

The alarm will be heard from the headphones. To stop the alarm, press the (radio) OFF button.

**While listening to neither the radio nor the tape**

The alarm will be heard from inside the unit (not from the headphones). Press the (radio) OFF button to stop the alarm, or press the RADIO ON button to stop the alarm and to turn on the radio, or depress the ▲PLAY button to stop the alarm and to start the tape playback.
The "(∞)" indicator on the display goes off when you stop the alarm.

## Cassette Insertion




**Note**

**When the cassette compartment lid will not open***
Open the rubber cap of the DC IN 3 V jack.

After opening the cassette compartment lid, **remember to close the rubber cap** again, because the unit is not water-resistant when the cap is removed.

* After the unit is transported on a plane or moved from a warm place to a cold place, the lid may not open because of a sudden change in air pressure.

# Precautions

- Operate the unit only on 3 V DC.
  For AC operation or car battery operation, use the accessories recommended for the unit.
- Avoid exposure to temperature extremes, direct sunlight, moisture, sand, dust or mechanical shock. Never leave the unit in a car parked in the sun.
- Should any solid object or liquid fall into the unit, remove the batteries and disconnect the AC power adaptor or the car battery cord, and have the unit checked by qualified personnel before operating it any further.
- If the unit has not been used for a long time, set it in the playback mode and warm it up for a few minutes before inserting a cassette.

**About the headphones**

- **Avoid listening with your headphones:**
  - **while driving, cycling, etc.**
  - for an extended time at a high volume.
- Remember not to disturb those close to you with the sounds coming from your headphones.
- Never blow on the ear pieces.

**DO NOT IMMERSE IN WATER**

- Before opening or shutting the cassette compartment lid, be sure to wipe off water, dust or sand on the outside of the unit.
- Since water in the headphones jack may cause rust, cover it with the attached rubber cap when the headphones are not used.
- If the unit or the headphones have been dropped in salt water, be sure to wash them in still fresh water.
  **Never wash them under running water, and never use soap or detergent.**
- The supplied headphones are not meant to be immersed in water or come in continuous contact with water. If they are accidentally dropped into water or if they get wet, dry them with a soft cloth. Never use an electric hair dryer.

**Notes on the display**

The digital display will become unstable if you place the unit in a location which is extremely hot or cold.

Do not place the unit in:

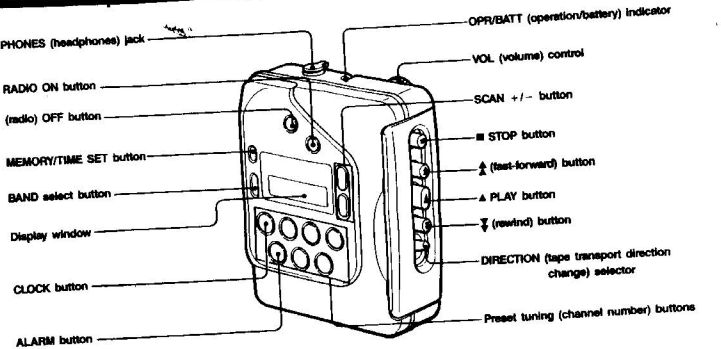
- a place continuously subject to direct sunlight or ultraviolet light (for example, on the seaside, etc.)
- a temperature below 0°C (32°F) or over 40°C (104°F). In a hot place, the display will be seen as 28:8:88, and in a cold place, the display may change slowly. (However, this is not a trouble. Use the unit in normal temperature.)
- a damp place (for example, in a bathroom, etc.) It will cause malfunction.
- a place subject to mechanical vibration or shock.

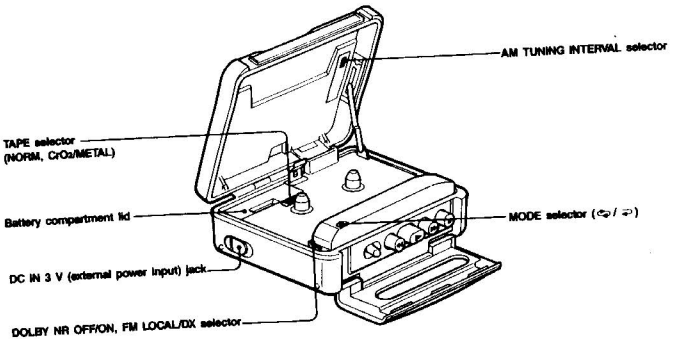
**Note on cassettes longer than 90 minutes**

The use of cassettes longer than 90 minutes is not recommended except for long continuous playback.

If you have any question or problem concerning your unit that is not covered in this manual, please consult your nearest Sony dealer.

# Parts Identification





AM TUNING INTERVAL selector
TAPE selector (NORM, CrO2/METAL)
Battery compartment lid
DC IN 3 V (external power input) jack
DOLBY NR OFF/ON, FM LOCAL/DX selector
MODE selector

## Using the Belt Clip